749 Main Street • Louisville CO 80027 • 303.335.4584 • www.louisvilleco.gov

Building Permit Guides

The City of Louisville Design Criteria, Prescriptive Energy Code, and items listed below shall take precedence over requirements listed in the Building Guides of the Colorado Chapter of International Code Council.

- The City of Louisville has adopted the 2018 International Code series.
- Please reference the city's design criteria and prescriptive energy code available on the City of Louisville website located at https://www.louisvilleco.gov/government/departments/planning-building-safety/building-permit-guides.
- All decks are required to be designed by a structural engineer and shall include and engineer stamp and signature.

Sec. 15.05.130. - Section R507.1 amended—Decks. https://library.municode.com/co/louisville/codes/code_of_ordinances Section R507.1 of the 2018 International Residential Code is amended to read as follows:

R507.1 Decks. Wood-framed decks shall comply with the standards set forth in this section. For decks using materials and conditions not prescribed in this section, refer to Section R301. All decks that are structurally supported from an existing residential home shall be engineered by a structural engineer that is licensed with the State of Colorado.

 Flat roof and patio covers may be required to be designed by a registered design professional. Section R802.4.4 of the 2018 International Residential Code read as follows:

R802.4.4 Rafter supports. Where the roof pitch is less than 3:12 (25-percent slope), structural members that support rafters, such as ridges, hips and valleys, shall be designed as beams, and bearing shall be provided for rafters in accordance with section R802.6



Building Guide

Colorado Chapter of the International Code Council

Single Family Residential One Story Addition

How to Use this Guide

Provide three sets of plans, drawn to scale and complete the following (hint: use graph paper with $\frac{1}{4}$ " squares. Example: $\frac{1}{4}$ " = 1'): Check with your jurisdiction for additional requirements.

- 1. Complete this Building Guide by filling in the blanks on page two and indicating which construction details will be used, and the R value of insulation used.
- **2. Provide 3 Plot Plans** showing dimensions of your project or addition and its relationship to existing buildings or structures on the property. Show all easements and the distance to existing property lines drawn to scale. See page 3.

3. Provide 3 Floorplans.

Drawn to scale. See example on page 5. Structural, section view, elevation or other drawings may be required.

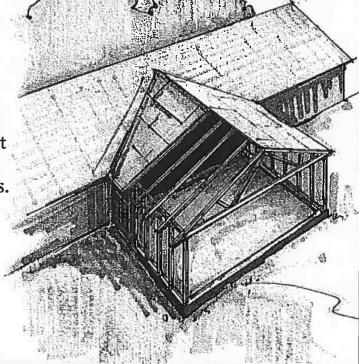
4. Fill out a Building Permit Application.

The majority of permit applications are processed with little delay. The submitted documents will help determine if the project is in compliance with building safety codes, zoning ordinances and other applicable laws.

Smoke alarms and carbon monoxide alarms are required.

The Colorado Chapter of the International Code Council is a professional organization seeking to promote the public health, safety and welfare to building construction. We appreciate your feedback and suggestions. To obtain a master copy of this building guide, please write to the Colorado Chapter of the International Code Council, P.O. Box 961, Arvada, CO 80001. http://www.coloradochapterlcc.org

This handout was developed by the Colorado Chapter of the International Code Council as a basic plan submittal under the 2012 International Residential Code. It is not intended to cover all circumstances. Check with your Department of Building Safety for additional requirements.





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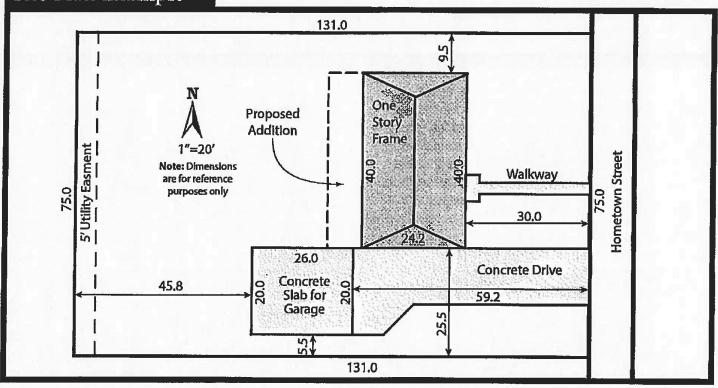
Building Safety Division 749 Main St. Louisville, CO 80027 303-335-4592 Phone 303-335-4588 FAX

Single Family Residential One Story Addition rafters spaced " O.C. or " O.C. Manufactured Trusses spaced Sheathing (example: 2 x 12 Rafters Spaced 24" O.C.) (example: 1/2" exterior plywood) Minimum 1x ridge board Roof covering (example: 1 x 12) (example: Class A 3 tab shingles) Note: For roofs with slopes less than 12 4:12, follow manufacturer's instructions for low slope application pitch of roofing material. **Building Section Ceiling Insulation** (example: R-49) Note: Attic ventilation and Wall Insulation access may be required (example: R-20 Fiberglass Balts) Provide roof tie downs Solid 2x blocking between ceiling joists @ rafters that are 2x12 or (example: 2 x 8 @ 24" O.C.) greater 1x4" collar ties @ 48" o.c Double 2x top plate (example: 2 x 6) Span (example: 23' 5") Note: Pre-engineered roof trusses witruss clips may be used in lieu of roof Ceiling height structure shown. (example: 8) Diagonal wind bracing or braced wall panels @ corners and each 20' of wall. Siding (example: lap or T-111) Note: Pre-engineered floor systems may be used and should be installed according to the manufacturers installation instructions. Wall sheathing (example: 1/2" exterior plywood) Access required studs @ (example: 2 x 6 @ 24" O.C.) Check one □ Vented 18" minimum Cont. 2x sill plate ☐ Unvented (example: 2 x 4) Engineered Design: Cassions may be required if your site has swelling soils. A foundation designed by a O.C. **Joists** @ Colorado Ilcensed architect or engineer may be required. (example: 2x10 @24" O.C.) Check one Wall width ☐ Foundation: Engineered Design ☐ Foundation: Detail A (example: 8") (see page 4) Footing size Property Address: (example: 8" X 16") **Building Safety Division** This handout was developed by the Colorado Chapter of the International Code Council as a basic plan submittal under 749 Main St. the 2012 International Residential Code. It is not intended to Louisville, CO 80027 cover all circumstances. Check with your Department of 303-335-4592 Phone Building Safety for additional requirements. www.louisvilleco.gov 303-335-4588 FAX

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Single Family Residential One Story Addition





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Single Family Residential One Story Addition

Heads Up

Site Plan

- 1. When drawing your plot plan be sure to show the location of electric, gas, sewer and water service lines. If you don't know where they are, call the Public Service Utility Notification Center of Colorado, 1-800-922-1987 or 811. They will come out and locate lines for you. Remember to ask them about the cost.
- 2. Show where the existing electric and gas meters are located on your home. These meters may have to be relocated and it is best to know this before you start construction.

Floor Plan

1. Smoke alarms and CO alarms. Smoke alarms are required to be hardwired and interconnected in new and existing bedrooms, halls and one on each level unless removal of interior wall or ceiling finishes would be required. In this case, battery operated devices are acceptable. Wireless smoke alarms are also acceptable.

Carbon Monoxide alarms are required on each floor with bedrooms. They are recommended to be located no farther than 15 ft. from any bedroom entrance. Do not install within 15 ft. of a fuel burning appliances. Follow manufacture's recommendations for location testing and replacement.

- 2. Additions not to enclose bedroom or basement egress windows.
- 8. Safety glass is required at specific locations. When you draw in the location of the new windows on the floor plan, the plan reviewer can identify which ones require safety glass.
- 4. Heat is required in all habitable rooms. Show how the addition will be heated on the plan.

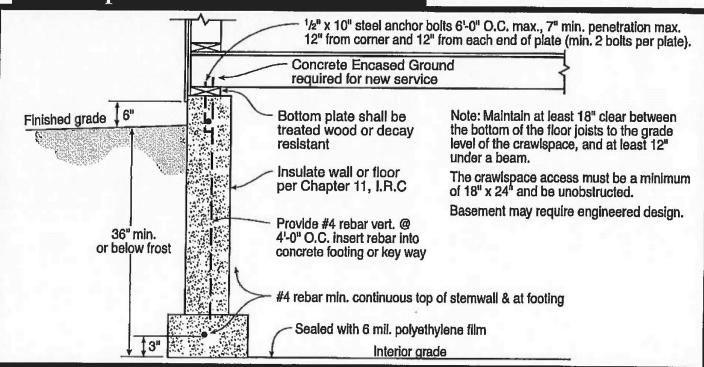
Electric Code -

Existing electric services may require an upgrade or relocation. Indicate the size of your electric service (the number on the main breaker) on your plan. This can help the plan reviewer determine if an upgrade is needed before you start construction.

Roof Overframe.

When constructing a new valley, use a continuous board under the bottom cut of the new rafters to provide a solid nailing surface. The board should be at least 2" thick, nominal and should be at least as wide as the base of the new rafter.

Crawlspace Foundation Detail A



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